

METHOD AND APPARATUS FOR EFFICIENT BATTERY USE BY A HANDHELD
MULTIPLE FUNCTION DEVICE

ABSTRACT OF THE DISCLOSURE

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A method for efficient battery use begins by monitoring at least one output of the handheld device for an overload condition. The processing continues by monitoring a system voltage produced by a DC-to-DC converter for a system low voltage condition. The process continues by monitoring voltage of the battery for a battery low voltage condition. The processing then continues by enabling one of a plurality of fail-safe algorithms based on when one or more of the overload condition, the system low voltage condition, and/or the battery low voltage condition are detected.